

Release notes for ENDF/B Development dec-055-Cs_142
evaluation

ENDF
B-VII.dev

April 19, 2017

• **fizcon** Errors:

1. Uncertainty on discrete radiation intensity (RI) bigger than RI itself, or worse, it is negative!!!

MAT=1806, MF= 8, MT=457 (1): Bad unc (a)

```
ERROR(S) FOUND IN MAT=1806, MF= 8, MT=457
DRI NOT IN RANGE 0.00000E+00 TO 1.60000E-04
DRI NOT IN RANGE 0.00000E+00 TO 1.40000E-04
DRI NOT IN RANGE 0.00000E+00 TO 7.00000E-04
DRI NOT IN RANGE 0.00000E+00 TO 1.60000E-04
... [3 more lines]
```

2. All probability distributions should be normalized to 1, this one isn't.

MAT=1806, MF= 8, MT=457 (2): Bad norm (b)

```
ERROR(S) FOUND IN MAT=1806, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00462E+00 BEFORE
```

3. Energies released in decay not adding up!

MAT=1806, MF= 8, MT=457 (3): Bad energy sum

```
ERROR(S) FOUND IN MAT=1806, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 1.70374E+06 SUM= 9.52372E+05 SEQUENCE NUMBER 2
```

4. Energies released in decay not adding up!

MAT=1806, MF= 8, MT=457 (4): Bad energy sum

```
ERROR(S) FOUND IN MAT=1806, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.32502E+02 SUM= 2.38696E+02
```